DURBESIC, Ivo, inz. (Zagreb)

Use of reversible rectifiers in rolling-mill drives. Avtomatika 3 no.4:243-248 Ag '62.

DURBESIC, Ivo, inz.

"Collected papers of the Yugoslav Seminar on Regulation, Measurements, and Automation, 1963," ed. by (inz.) Marijan Brezinscak. Vol. 2. Reviewed by Ivo Durbesic. Telekomunikacije 12 no.4:31 0 '63

DURBESIC, Ivo, inz.

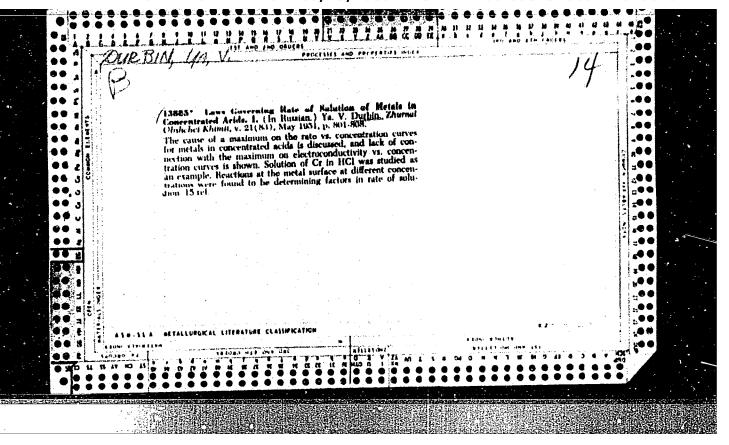
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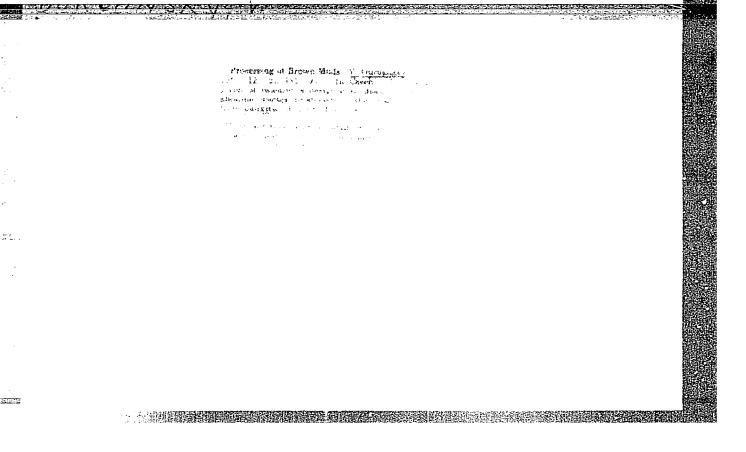
"Collected works of the Yugoslav Seminar on Regulation, Measurements, and Automation, 1963," ed. by [inz.] Marijan Brezinscak. Vol. 2. Reviewed by Ivo Durbesic. Kem ind 12 no.12:945-946 D '63.

DURBESIC, Ml., inz.

Application of the electric-arc and air method in welding root seams. Zavarivac 8 no. 3:2-15 '63.

1. Steam Boiler Plant, Zagreb.





DURCANSKY, Vladimir, inz., CSc.; PELZL, Rudolf

Electrothermic production of aluminum alloys, in particular silumin in Czechoslovakia. Pt. 1. Hut listy 18 no.6:416-424 Je '63.

1. Vyzkumny ustav kovu, Panenske Brezany.

DURCANSKY, Vlad., inz., CSc.; PELZL, Rudolf

Electrothermic production of aluminum alloys, in particular silumin in Czechoslovakia. Pt.2. Hut listy 18 no.73489-499 Jl '63.

1. Vyzkumny ustav kovu, Panenske Brezany.

L 7676-66 EWP(t)/EWP(b) IJP(c) JD SOURCE CODE: CZ/0057/65/000/002/0083/0087 ACC NRI AP6001280 AUTHOR: Durcansky, Vladimir (Candidate of sciences: Engineer) THE SECRET RESTORAGE THE PROPERTY OF THE PROPE 44:55 ORG: Research Institute for Metals. Panenske Brezany (Vyzkumny ustav kovu) 74.55 TITLE: Question of aluminum production from domestic raw materials SOURCE: Hutnik, no. 2, 1965, 83-87 TOPIC TAGS: aluminum, aluminum alloy Various methods of producing aluminum are reviewed. The ABSTRACT: various raw materials occurring in Czechoslovakia are discussed. Minerals and the analysis, and amounts available are listed. Fly ash from electric power stations is evaluated as raw material for aluminum production. Wethods that can be used with the available minerals are described. There is no bauxite that could be considered as raw material. Possible yields from different ores are compared; direct production of aluminum and of some of its alloys is discussed. Necessary sources of energy for aluminum production are discussed. Possible reduction in the consumption of aluminum is considered. Crig. art. has: 3 figures. [JPRS] 11 / SUBM DATE: none / ORIG REF: 007 / OTH REF: 001

9.3150

Z/037/60/000/005/017/056 E192/E382

AUTHOR:

Burček. J.

TITLE:

Radiospectropic Investigation of Electrical

Discharges in Gases

PERIODICAL:

Československý časopis pro fysiku, 1960,

No. 5, p. 409

TEXT: The work was concerned with the investigation of electrical gas discharges when the discharge was placed in a strong magnetic field. The method of investigation was based on the selective absorption of microwaves in the discharges. The conditions under which this selective absorption occurs were investigated and it is shown that on the basis of the kinetic theory or quantum-mechanical theory it is possible to determine the relationship between the shape of the absorption lines and some of the discharge parameters. The absorption and dispersion curves were investigated. The theoretical results were verified on a device operating at the 3 cm wavelength by using the method of the electron paramagnetic resonance. The absorption and dispersion curves were measured at various pressures and Card 1/2

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Z/037/60/000/005/017/056 E192/E382

Radiospectroscopic Investigation of Electrical Discharges in Gases

currents for various gas fillings in the discharge tubes.

ASSOCIATION:

Prírodovedecká fakulta Univerzity Komenského v Bratislave (Natural Science Faculty of

Komenský University, Bratislava)

VB

Card 2/2

452/8 2/037/62/000/005-6/018/049 E192/E382

26,2311

AUTHOR: Durcek, J.

TITLE: Cyclotron electron resonance in a unidirectional

discharge in helium and argon

PERIODICAL: Coskoslovensky casopis pro fysiku, no. 5-6, 1962, 557 - 560

TEXT: The effect was investigated experimentally by means of a discharge tube 5 mm in diameter and 6 cm long, situated in a rectangular cavity resonator in the position of the maximum electric field. The axis of the tube was parallel to the wider wall of the waveguide and perpendicular to its axis. A magnetic field produced by an electromagnet was directed along the axis of the tube. The high-frequency field for the TE<sub>105</sub> mode was therefore perpendicular to the magnetic field. The intensity of the magnetic field in the gap could be varied up to 6 000 G with an error of 1%. The conductivity of the discharge was measured by a probe attached to the coupling plane of the resonator. The relationship between the measured conductivity and the actual conductivity of the discharge was determined by Card 1/3

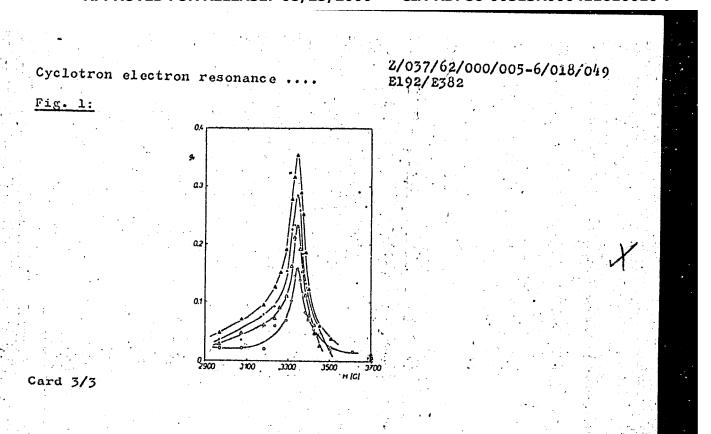
Cyclotron electron resonance .... 2/037/62/000/005-6/018/049

the Rose-Brown method (J. Appl. Phys., 23, 711, 1952). conductivity in the vicinity of the resonance was measured as a function of the magnetic field for a given pressure and current flow through the tube. The measurements were carried out at 9 350 Mc/s and a stabilized reflex klystron was used as a highfrequency source. The results of measurements of the real component of the conductivity in the coupling plane as a function of the magnetic field for a pressure of 1.7 mm Hg are shown in Fig. 1, where the circles denote the measurements for a current of 60 μA, triangles show the points taken at 80 μA and crosses relate to currents of 100  $\mu A$ . The width of the magnetic-field line AH as a function of pressure was measured for both helium and argon. It was found that  $\Delta H$  was a linear function of pressure for p>2 mm Hg; below this value  $\Delta H$  is constant. The measurements are in good agreement with the theory for pressures above 2 mm Hg. There are 3 figures.

ASSOCIATION:

Katedra fyziky Vysokej skoly dopravnej, Zilina (Department of Physics of the Transport University, Zilina)

Card 2/3



2/037/62/000/005-6/047/049 E140/E520

AUTHORS:

Ďurček, J. and Tirpák, A.

TITLE:

3 cm Directional coupler using cyclotron resonance

in a gas discharge

PERIODICAL:

Československý časopis pro fysiku, no.5-6, 1962,

720-722

TEXT: A gas-discharge tube in a magnetic field parallel to the wide side of a rectangular waveguide gives a directional effect of the order of 15 - 30 dB. The effect may be utilised for control and modulation purposes. There are 3 figures.

ASSOCIATIONS: Katedra fyziky Vyzokej skoly dopravnej, Žilina (Physics Department of the High School of Transport,

Zilina) (Durček)

Katedra exper. fyziky Prírodovedeckej fakulty

Univerzity Komenského, Bratislava

(Department of Experimental Physics, Faculty of Natural Sciences, Komensky University, Bratislava)

(Tirpák)

Card 1/1

same)

MINARIK, F.; DURCEK, K.; MINARIK, A.

The problem of dispersed radiations near diagnostic x-ray apparatus. Pracovni lek. 10 no.2:141-144 May 58.

1. Ustav hygieny prace a chorob z povolania, Bratislava, riaditel MUDr. Imrich Klucik, F.M. Bratislava, ul. 29. Augusta 8.

(ROENTGEN RAYS, injurious effects
hazards in vicinity of diag, x-ray equip. (Cz))
(ROENTGENOGRAPHY.

KIUVANEK, P.; DURCEK, K.; HASARYK, S.; MINARIK, F.; za tech.spoluprace URICKA, L.; DOUPOVCA, V.

Effect of technical shortcomings of roentgeno-diagnostic equipment on spreading of secondary radiations. Cesk.rentg. 15 no.1:30-36 F 161.

1. Ustav hygieny prace a chorob z povolania v Bratislave, riaditel MUDr. I. Klucik.

(RADIATION PROTECTION)

## "APPROVED FOR RELEASE: 08/25/2000

#### CIA-RDP86-00513R000411610010-7

DURCEK, KAROL

SURTAME, Given Names

Country:

Sources

Datas

Czechoslovakia

Academic Degrees:

[not given]

Affiliation:

Institute of Work Hygiene and Occupational Diseases (Ustav

hygieny prace a chorob z povolania), Bratislava

Bratislava, <u>Matematicko-Fizikalny Casopis</u>, Vol 11, No 3, 1961, pp 214-221 "Contribution to a Method of Absolute Dosimetry of Sr90."

Authors:

STANKOVICOVA, Alojzia MINARIK, Frantisek

DURCEK, Karol

GPO 981643

STANKOVICOVA, Alojzia (Bratislava, ul. Narodneho povstania c. 18-20); MINARIK, Frantisek (Bratislava, ul. Narodneho povstania c. 18-20); DURCEK, Karol (Bratislava, ul. Narodneho povstania c. 18-20)

Methods of absolute dosimetry of Sr<sup>90</sup>. Mat fyz cas SAV 11 no.3:214-221 61.

1. Ustav hygieny prace a chorob z povolania, Bratislava.

CZECHOSLOVAKIA

DURCO, J; MD; MALEC, I; OMANIK, S., MD.

1. Surgical Ward OUNZ (Chirurgicki oddelenie OUNZ), Trencina (for Omanik); 2. X-Ray Ward OUNZ (Rontgenologicki oddelenie OUNZ), Trencina (for Durco)

Bratislava, Lekarsky obzor, No 6, 1963, pp 343-347

"Mesenterial Cysts."

# DURCZAK, Witold (Warssawa)

Utilization of the fundamental building machinery in the construction and building materials industry. Przegl budowl i bud mieszk 34 no.8:474-477 Ag 162.

DURCZEWSKI, D.

DURCZEWSKI, D.

"Hygiene of our forebears." p. 16. (ZDROWIE Vol. 7, No. 1, 1955. Warszawa, Poland)

SO: Monthly List of East European Accession. (MEAL). LC. Vol. 4. No. 4. April 1955. Uncl.

DURDENEVSKAYA, M.V. (Moskva)

Eminent Russian metallurgist; the 100th anniversary of the birth of V. E. Grum-Grzhimailo. Priroda 53 no.4:113-115 '64. (MIRA 17:4)

DURDENEVSKIY, V., doktor yurid.nauk, prof.; KOLODKIN, A., kand.yurid.nauk

\*International maritime law\* by L.A. Ivanashchenko.
Reviewed by Y. Durdenevskii, A. Kolodkin. Mor. flot
22 no.9:45-46 S '62. (MIRA 15:12)

(Maritime law)

(Ivanashchenko, L.A.)

# DURDENIC, Volimir.

Automatic regulation of the MTC furnace for the production of carbon black. Nafta Jug 12 no.3/4:97-100 Mr-Ap '61.

1. Institut za naftu, Zagreb.

SUSIC, Milenko, V.; DURDEVIC, Desanka 2.

Potenticmetric and conductometric determination of selenium and arsenic. Gl hem dr 23/24 no.5/6:297-304 '58/59. (EEAI 10:4)

1. Faculty of Sciences, Institute of Physical Chemistry, Beograd.
(Selenium) (Arsenic) (Conductometric analysis)
(Potenticmeter)

SUSIC, Milenko V.; DURDEVIC, Desanka Z.

Separation of selenium, tillurium, and arsonic on the ion exchangers. Gl hem dr 23/24 no.5/6:313-320 °58/59. (EEAI 10:4)

1. Fakulty of Sciences, Institute of Physical Chemistry, Beograd.

(Selenium) (Tellurium) (Arsenic)

(Ion exchange) (Gums and resine, Synthetic)

(Dower 1)

# DURDEVIC, D.; JOVANOVIC, M.

Some of our experiences pertaining to the marking of albumens with radioactive iodine. Bul se Youg 7 no.1/2:13 F-Ap '62.

1. Fizioloski institut Veterinarskog fakulteta, Beograd.

₹

## DURDAVIC, J.

"Taras; ragional-geographical survey. p. 144, (ZEORNIK. SERIJA RINCONTH NAUKA, Vol. 9, No.4, 1958, Nova Sad, Yugoslavia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 4,

## BURDEVIC, J.

Three main cities in Vojvodina and their major functions. p. 168.

CROATICA CHETICA ACTA (Hrvatsko kemijsko drustvo, Svueciliste u Zagrebu i Hrvatsko prirdoslovno drustvo) Zagreb, Yugoslavia, Vol. 7, no. 14, 1958

Monthly list of East European Accessions (EBAI) LC, Vol. 8, no. 8, Aug. 1959 Uncl.

## DURDEVIC, Jelica

"Proceedings of the 5th Congress of the Geographers of Yugoslavia, held in Montenegro September 8-16, 1958."
Reviewed by Jelica Durdevic. There prir Mat srp no.19:203

ANDELKOVSKI, Andelko, dr., prim.; LAKIC, Milan; DURDEVIC, Ljubomir; TODOROVIC, Dusan

Sodoku. Srpski arh. celok. lek. 89 no.7/8:679-681 Jl-Ag 161.

1. Interno odeljenje Opste bolnice u Pancevu. Sef: prim. dr Andelko Andelkovski.

(RAT BITE FEVER case reports)

SAVIC, 5.; DURDENIC, V.; NOVALOVIC, R.; AMASTASHUNNIC, B.

Contribution to the study of respiratory function in trained and untrained children during standard exercise. Acre med. Tugorl. 18 no.3:169-178 164.

l. Odelsnje za diziolosko-medicinska Jepitivanja Jugoslovenskig zavoda za fizioku kulturu u Beogrady.

DURDEVIC, Vukasin (Backo Gradiste)

Contradictions in the textbooks of geography and history. Geogr hor 9 no.3:41-45 '63.

NOVAROVIG, N.; ANASTASIJEVIG, R.; SAVIG, S.; FUPDEVIG, V.

Heart volume, physical efficiency are made relations in leading Yugoslavian athletes in various fields. Acts med. Iugosl. 18 no.2s107-120 164

l. (deljenje za medicinakofizioloska ispitivanja Jugoslavanskog zavoda za fizioku kulturu u Beogradu.

DURDEVIC, Z.
"Submerged pumps, depth pumps of the future." p. 59. (ZELEZNICE, Vol. 9, no. 2, Feb.

1953, Beograd.)

DURDEVIC, Z.

New method of supplying water for locomotives. F. 113. ZELENICE. Vol. 11, No. 3, March, 1955. Belgrad.

SOUPCE: East European Accessions List, (EEAL) Library of Congress, Vol. 4, No. 12, Dec. 1955.

DURDIK, F.

Czechoslovakia/Chemical Technology - Chemical Products and Their Application. Carbohydrates and Refinement, I-26

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63509

Author: Burianek, J., Durdik, F.

Institution: None

Title: Polarographic Determination of Calcium in Sugar Juices

Original

Polarograficke stanovení vapníku v cukernych stavach. Listy Periodical:

cukrovarn., 1954, 70, No 10, 228-229; Czech; Russian resumé

Abstract: The method is based on displacement by Ca ions of Zn ions in a solution of Zn-complexionate. In a 10 ml measuring flask are placed 2 ml of saturation juice, there are added 3 ml 0.01 M Zn-complexionate, 4 ml concentrated ammonia, and the flask is filled to the mark with 0.5% solution of gelatin. After mixing polarographic determination is carried out immediately from -0.8 to -1.2 v at a sensitivity of

~1/150. Polarography under analogous conditions of various amounts of 0.01 M CaCl2, in which the concentration is determined exactly by

Card 1/2

Czechoslovakia/Chemical Technology - Chemical Products and Their Application. Carbohydrates and Refinement, I-26

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63509

Abstract: the volumetric method, yields a calibration curve of comparison. With a concentration of Ca, in the juice, above 0.01 M, one ml of the juice is taken. 0.01 M Zn-complexionate is prepared by mixing a 0.01 M solution of Zn(NO3)2 with a slightly less than equivalent amount of 0.1 M complexion, in such a manner that the solution contains a small amount of free ions. O.1 M complexion is prepared by mixing 29.21 g ethylenediaminotetracetic into 200 ml 1 N NaOH and diluting thereafter to one 1, or dissolving 37.2 g of the sodium salt of the above-stated compound in one 1 water. On comparison of the polarographic method with the volumetric satisfactory results were obtained.

Card 2/2

Durdik

CZECHOSLOVAKTA/Forestry - Biology and Forest Typology.

J-2

Abs Jour

: Referat Zhur - Biologiya, No 16, 25 Aug 1957, 69086

Author

Inst

Durdik

Title

: Growth Conditions in Shumava and Poshumava in Vicinity of

Kashpersky Mountains.

Orig Pub

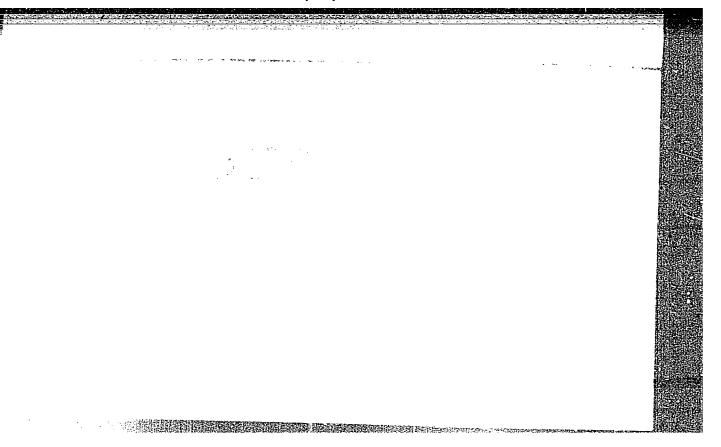
: Casop. Narodn. musea, Odd. prirodoved, 1955, 124, No 1,

Abstract

: It is notable that as a result of forest cultivation the primary character of forests is changed considerably: in the district of Poshumava monocultures of pine prevail, while in Shumava culture of fir is widely distributed, especially at lower levels, where the fundamental beech growth disappears almost completely. The author divides the given area into climatic-vegetative districts, which are characterized by the following vegetative groupings: 1) region of Quercus-Carpinion -- Arrhenatherion;

Card 1/2

- 11 -



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DURDIK, FRANTISEK

CZECHOSLOVAKIA/Chemical Technology. Chemical Products

and Their Application, Part 3. - Caroohydrates

and Their Treatment.

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 72151.

Author : Josef Burianek, Frantisek Durdik.

Inst

: Upon the Theory of Last Saturation. Part III. Title Treatment of Juices after the Last Saturation.

Orig Pub: Listy cukrovarn., 1956, 72, No 7, 151-152.

Abstract: The optimum alkalinity, at which the minimum

precipitation of CaCO<sub>2</sub> in the evaporating apparatus takes place, not always satisfies the requirements of the following treatment - darkening and formation of reducing substances occur. If the

alkalinity was too high (which happens at a high

: 1/2 Card

Durdik F.

Czechoslovakia Chemical Technology. Chemical Products H-5 and Their Application

Water treatment. Sewage water.

Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1727

Author : Durdik F.

: Effect of a Magnetic Field on Scale Formation Title

Orig Pub: Listy cukrovarn., 1956, 72, No 12, 275

Abstract: Laboratory experiments have shown that evaporation

of water in a magnetic field does not prevent scale formation and does not cuase dissolution of the scale, but lowers the intensity of scale for-mation by about 10-20%

Card 1/1

# DURDIK, FRANTISEK

CZECHOSLOVAKIA/Chemical Technology, Chemical Products and Their H-26

Application, Part 3. - Carbohydrates and Their

Treatment.

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 48359

Author : I - Josef Burianek, Frantisck Durdik, Karel Cihal; II -

Josef Burianek, Frantisek Durdik.

Inst :

Title : Upon the Theory of Last Saturation. I. Application of

Warburg's Instrument to Last Saturation Control. II.

Deduction of Criterion of Minimum Formation of Calcium

Carbonate in Last Saturation Juice.

Orig Pub : Listy cukrovarn., 1957, 72, No 6, 133-135, 136-140.

Abstract : I. A method of determination of the amount of CO2 bound

in the last saturation juice and of the concentration of weak bases in the atmosphere of CO<sub>2</sub>-gas was developed using Warburg's instrument. The results of experiments are shown in tables and graphs. A criterion for judging

the minimum formation of insoluble CaCO3 in the last

saturation juice is established.

Mana 1/0

CZECHOSLOVAKIA/Chemical Technology, Chemical Products and Their H-26
Application, Part 3. - Carbohydrates and Their
Treatment.

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 48359

II. It is shown theoretically and experimentally that there is at the last saturation such a juice basicity, at which CaCO3 is forming in the least amount. The attainment of such basicity depends neither on the reaction equilibrium, nor on the temperature and density of the juice.

Card 2/2

DURDIK, M.

Effect of climate on humans in Bohemia from 1876 to 1925. p. 65 METEOROLOGICKE ZPRAVY. Vol. 6, No. 2, May 1953

30: Monthly East European Accession (EEAL), LC, Vol. 4, No. 9, Sept. 1955 Uncl.

DURDIK, M.

Vegetation in the Bohemian Forest and in its foothills in the environs of Asperske Hory. p. 9

Vol. 124, no. 1, 1955 CASOPIS; ODDIL PRIRODOVEDNY Praha, Czechoslovakia

So: Eastern European Accession Vol. 5, No. 4, 1956

DURDIK, P.

Vacuum pumps with rotating pistons in practical use. p. 256.

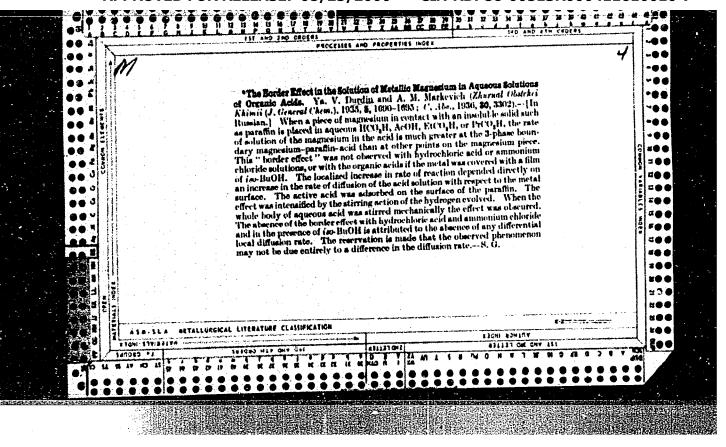
ELEKTROTECHNIK, Praha, Czechoslovakia, Vol. 14, no. 8, Aug. 1959.

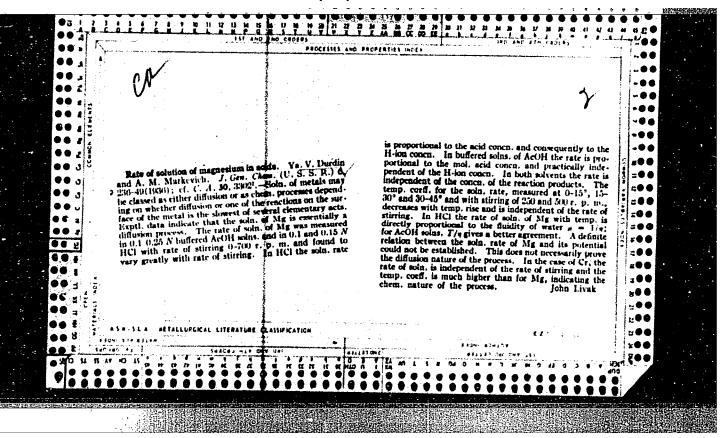
Monthly list of East European Accessions, (EEAI) LC, Vol. 8, No. 10, Oct. 1959 Uncl.

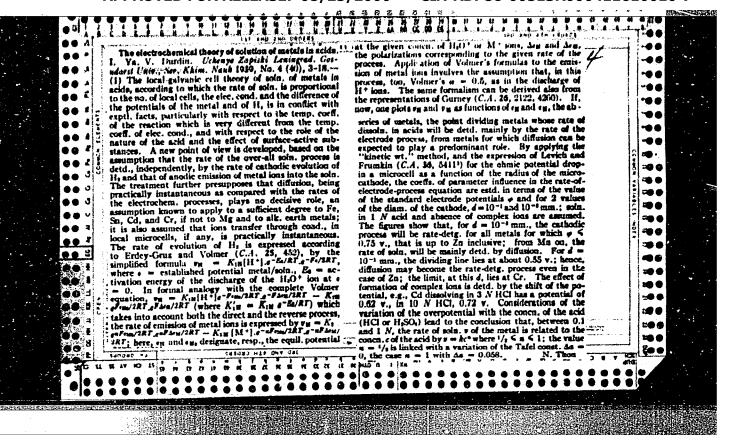
DURDIL, J.

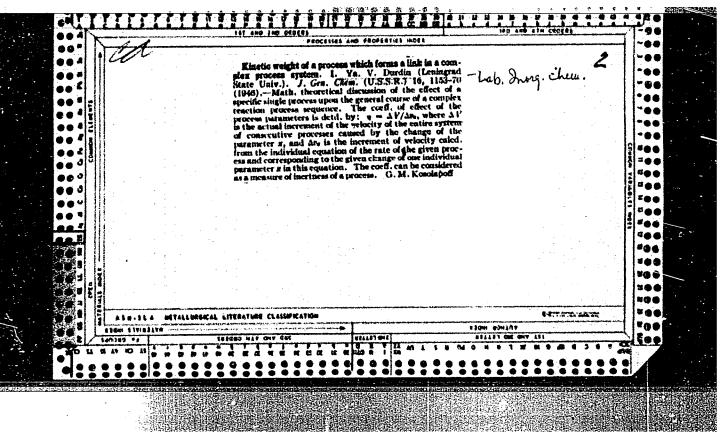
"Twenty Weaned Suckling Pigs from One Sow in a Year." p. 13. "Recent Price and Economic Regulations." p. 14. "A Method for Speeding the Germination of Fruit Tree Seeds." p. 15. "New Purchase Prices for Sheared Wool of Domestic Origin." p. 15 (CESKOSLOVENSKE STATNI STATKY, Vol. 3, No. 14, April 1951) Praha, Czechoslovakia

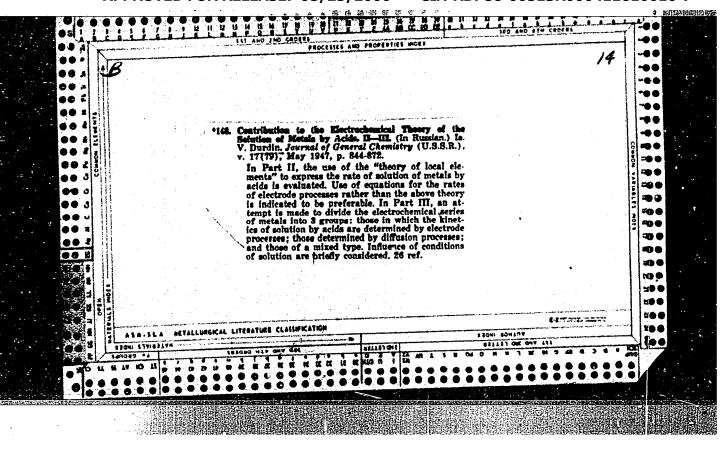
SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4, April 1954. Unclassified.

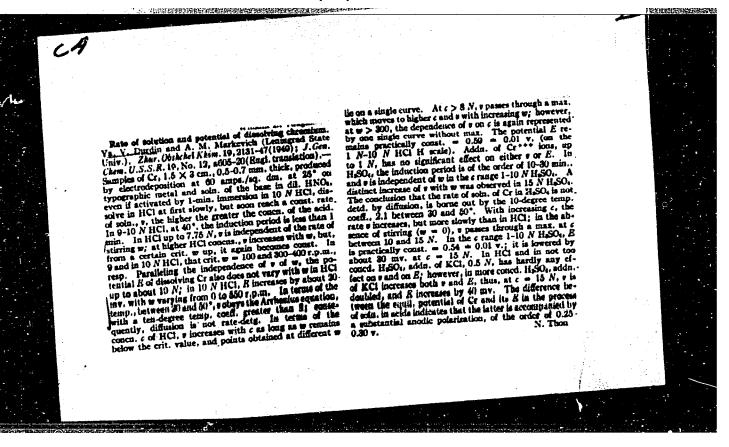




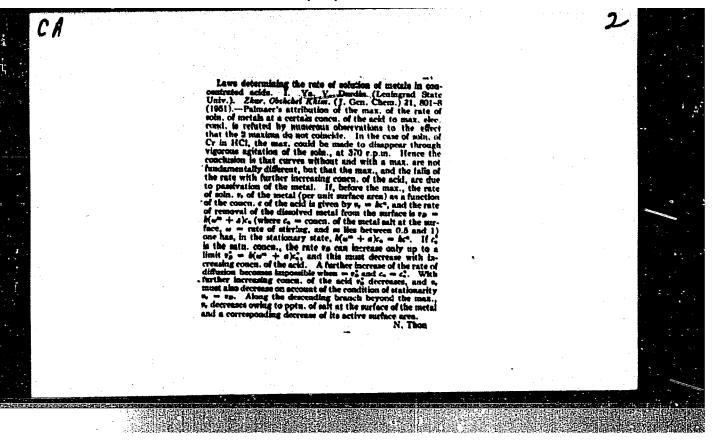




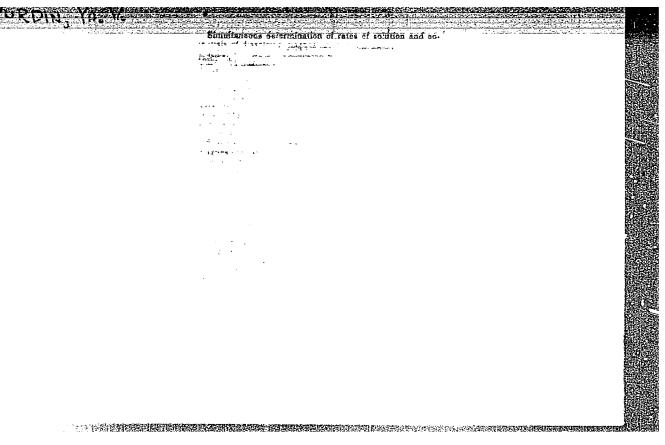




DURDIN, Ya. V.		•	
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	"Rate of Solution and Potential of Dissolving Iron Ya. V. Durdin, M. A. Oranskaya, Lab of Inorg Chem,		
	Moscow State U		
2	"Zhur Obshch Khim" Vol, XXI, No 4, pp 604-614		
· .	藝術學 시간 이 이 전 기소 주요가 있는 것이 하는 사람들이 되었다.		
	Tabulates and analyzes data on dissolving of Armco		
	and tech roofing iron by HCl and HoSOh, comparing rate of soln and potential of both grades.		
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USSR/Chemistry

Card 1/1Pub. 127 - 12/12

Authors Durdin, Ya. V.; and Nikolaeva, S. A.

WARRIED TO THE PARTY OF THE PAR

Title Study of the dissolving speed of cadmium and its stationary potential in

hydrochloric acid

Periodical : Vest. Len un. ser. mat. fiz. khim. 5, 165-185, May 1955

Abstract The speed with which cadmium dissolves in hydrochloric acid and the

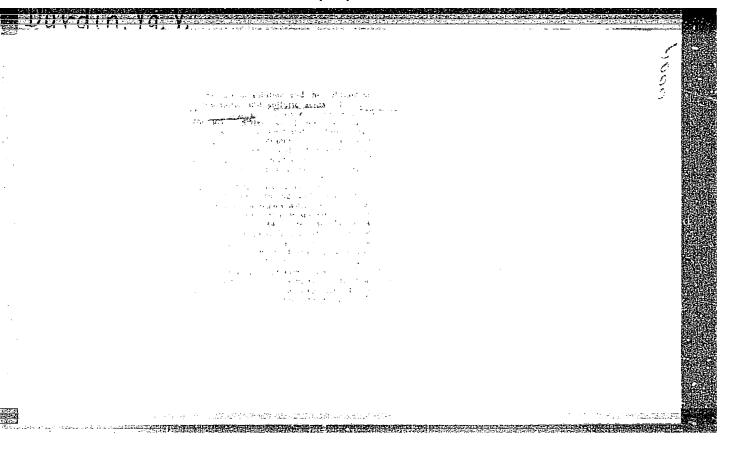
potential of the dissolved cadmium was studied at the laturatory of the Scientific Research Chemical Institute named after A. A. Indanov in Leningrad. The experiments that were conducted are described and their results are presented in the forms of tables, distant and inotograms. Seventeen USSR references (1928-1954). Tables, andrey illustrations.

Institution:

Submitted: December 15, 1955

DURDIN, YA.V.

The Problem on the Effect of Admixtures on the Dissolving Speed of Cadmium in Hydrochloric Acid Vest. Leningrad U., Ser. Fiz. i Khim., no. 1, 1956, p. 83



DURDIN, YA.V.

Application of the Oscillograph Method for Researching the Kinetics of Dissolving Iron in Sodium Acid Vest. Leningrad U., Ser. Fiz. i Khim., no. 1, 1956, p. 127

DURDIN, Ya.V.; NIKOLAYEVA, S.A.

Effect of admixtures on the rate of solution of cadmium in hydrochloric acid, Vost. Len. un. 11 no.4:83-97 P '56. (MIRA 9:7) (Cadmium) (Solution (Chemistry))

DVORKIN, K.A.; DURDIN, Ya.V.

Studies on the rate of solution and on the petential of zinc dissolved in hydrochleric and sulfuric acid solutions. Part 1. Vest.Len.un.11 no.4:99-110 F \*56. (MLRA 9:7) (Zinc) (Solution (Chemistry))

DURDIN, Ya.V.; KRAVISOV, V.I.

Oscillographic method for studying the kinetics of solution of iron in sulfuric acid. Vest.Len.un.ll no.4:127-131 F '56. (MLRA 9:7) (Solution (Chemistry)) (Oscillograph)

DURDIN YA.V.

AUTHCRS:

Durdin, Ya. V., and Kravtsov, V. I.

54-4-16/20

TITLE:

The Investigation of the Kinetics of Electrode-Processes Taking Place on the Surface of Metals Soluble in Acids. I. Iron (Issledovaniye kinetiki elektrodnykh protsessov, protekayushchikh na metallakh,

rastvoryayushchikhsya v kislotakh. I. Zhelezo).

PERIODICAL:

Vestnik Leningradskogo Universiteta Seriya Fiziki i Khimii, 1957, Vol. 22, Nr 4, pp. 131-147 (USSR).

ABSTRACT:

The experiments were carried out with an Armco iron (0.017 % C, 0.02 % Si and 0.006 % Mn) in a glass apparatus, in hydrogen at mospheric pressure, at 25 to 0.1 %. By cutting in and out a directly polarized current the curves of the cathode-polarization and the oscillograms of the Armco iron contained in 21H2SO1 have been obtain

ned and studied. The tabulated results show, that the solution-welocities of iron calculated on 1 cm² of visible surface rise after some time, whereas the solution velocities calculated on the real surface go down. Latter, apparently, can be attributed to the increase of the lecessive voltage of the hydrogen on the iron, depending on the accumulation of the free carbon on the surface of the iron. From the oscillograms the quantities of the double-layer-capacity were obtained

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The Investigation of the Kinetics of Electrode-Processes Taking 54-4-16/20 Place on the Surface of Metals Soluble in Acids.

and thus the changes of the real surface were determined. The deviations of the cut-out-oscillogram at small polarization from the theoretical quantities can also be explained by the fact, that on the iron surface there is a hydrogen excessive voltage which is influenced by the slow discharge and the slow disappearance of the hydrogen from the iron surface. For the strong cathode-polarization a value b - loo mV was obtained, for computations, however, the value b - 60 mV has to be used. This deviation can be explained by the influence of the diffusion of the atomic hydrogen into the solution upon the velocity of the total process of the hydrogen separation. There are 8 figures, 3 tables, and 35 references, 22 of which are Slavic.

SUBMITTED:

January 7, 1957.

AVAILABLE:

Library of Congress.

Card 2/2

DURDIN, YA. V.

AUTHORS:

Dvorkin, K. A., Durdin, Ya. V.

54-1-8/17

TITLE:

The Study of the Rate of Solution and of the

Solubility Potential of Zinc in Hydrochloric and Sulphuric Acid (Issledovaniyo skorosti rastvoreniya i potentsiala rastvoryayushchegosya tsinka v solyanoy i sernoy kislotakh).

II. The Rate of Solution of Monocrystalline Zinc

(II. Skorost' rastvoreniya monokristallicheskogo tsinka)

PERIODICAL:

Vestnik Leningradskogo Universiteta Seriya Fiziki 1

Khimii (Nr 1), 1958, Nr 4

ABSTRACT:

Previous works (Ref.1) made it appear possible that, in the case of a high purity of zinc, small modifications in the crystal structure of the samples investigated exercised considerable influence upon their dissolving velocity. At the same time it is presumed that the influence exercised by the physical structure of the zinc can be eliminated by investigating the dissolving velocities of the individual faces of the monocrystals of zinc. In the present paper the authors tell of results which they obtained when investigating

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The Study of the Rate of Solution and of the Solubility Potential 54-1-8/17 in Hydrochloric and Sulphuric Acid.

II. The Rate of Solution of Monocrystalline Zinc

the dissolving velocity of the basic face 0001 of monocrystals of very pure zinc in the acids (HCl and 42SO1). The method was in principle identical with that described by ref. 1 (both works were completed in 1949). Results: 1.) Monocrystals were obtained from very pure zinc (99,9999 atomic zinc %) and the possibilities for applying the methods developed by Paliban and Froyman were described. 2.) The velocity of the self-dissolution of the basic face 0001 of the monocrystals of zinc in hydrochloric- and sulphuric acid and their steady potentials were investigated. It was shown that the dependence of the velocity of self-dissolution on the concentration of the acid is of exponential character in the case of hydrochloric acid. In the case of sulphuric acid it is nearly linear. The steady potential of the self-dissolving monocrystals of zinc shifts in a negative direction in hydrochloric acid, and in sulphuric acid it varies only within the error limits. 3.) For the temperature coefficient of the velocity of

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The Study of the Rate of Solution and of the 16 and Sulphuric Acid.

II. The Rate of Solution of Monocrystalline Zinc

self-dissolution of zinc monocrystalls the value  $\frac{\text{vt} + 10}{\text{v}}$  = 1,9 - 2,0 was obtained. 4.) It was shown that mixing the solution exercises a considerable influence upon the velocity of self-dissolution of the zinc, which is, however, considerably lower than in the case of a diffuse dissolution of magnesium in acids. 5.) A comparison was drawn between the relative velocities Wzn; Wcr; Wkn Hg; Wkn Pb W computed. It was shown that the interrelations between these amounts, as also the dependence of the steady potential of zinc and cadmium on the concentration of the hydrochloric acid can be explained on the basis of the kinetics of electrode processes in concentrated acid solutions. The influence exercised by the specific anion adsorption and the formation of complexes between the anions of the acid and the ions of the metal upon these processes in the solution is taken into account. There are 4 figures, 5 tables, and 20 references, 16 of which are Slavic.

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54-1-8/17 The Study of the Rate of Solution and of the Solubility Potential of Zinc in Hydrochloric and Sulphuric Acid. II. The Rate of Solution of Monocrystalline Zinc

SUBMITTED:

July 10, 1957

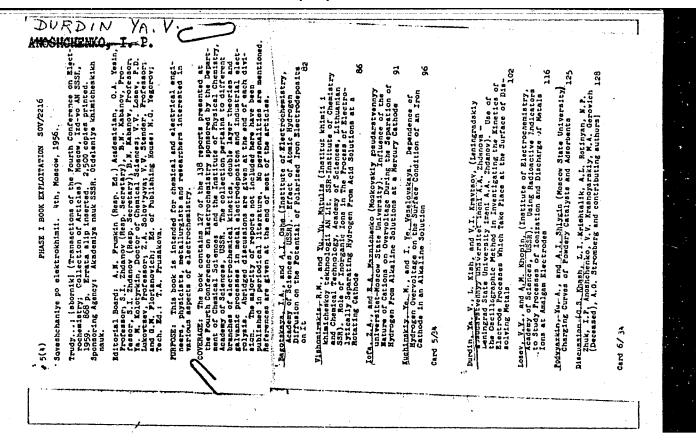
AVAILABLE: Library of Congress

1. Zinc-Solubility-Analysis

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"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411610010-7



5(4) AUTHORS:

Durdin, Ya. V., Tsventarnyy, Ye. G.

507/54-59-2-18/24

TITLE:

Hydrogen Separation Overvoltage on an Amalgamated Zinc Electrode in Concentrated Hydrochloric-acid- and Hydrogen-bromide Solutions (Perenapryazheniye vydeleniya vodoroda na amal gamirovannom tsinkovom elektrode v kontsentrirovannykh

rastvorakh solyanov i bromistovodorodnov kislot)

PERIODICAL:

Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, 1959, Nr 2, pp 119-128 (USSR)

ABSTRACT:

The investigation of the hydrogen overvoltage can give information on the rules and the mechanism of the influence of specific adsorptions of inorganic anions on the kinetics of electrode processes. There is, however, the difficulty of separating this influence from other influences such as change of concentration and effect of hydrogen ions on their discharge rates. Infa and Frumkin (Refs 1-4) set up an equation for the rate of the cathodic H-separation process, in which they considered the above-mentioned influences. The equation corresponded qualitatively quite well to experimental observations. The degree of its quantitative accuracy is not yet sufficient.

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Hydrogen Separation Overvoltage on an Amalgamated SOV/54-59-2-18/24 Zinc Electrode in Concentrated Hydrochloric-acid- and Hydrogen-bromide Solutions

it was checked once more in the present paper. Amalgamated electrodes were used because of their relatively high freedom of other secondary influences (change of the active electrode surface, and change of the physical state). Besides, the polarization curves were plotted oscillographically in contrast to the usual method (Fig 6). The usually applied investigation method does not principally differ from the one described in the papers by Durdin and Kravtsov (Ref 6). The electric scheme consisted of the ordinary compensation scheme for the measurement of the electrode potential, a millivoltmeter, and an eight-loop oscillograph of the MPO-2 type. In order to eliminate the disturbing influences mentioned in the introduction, the polarization curves n - lg i were plotted by three different methods: 1) By a slow transition of these curves from high to low polarization, and vice versa, with 2-3 hours' staying on each current density until the constancy of the potential was attained. 2) The same in a time of 3-4 minutes by use of the cathode millivoltmeter. 3) By plotting the polarization curves from one point, i.e. waiting - at a given current density for the potential constancy of the electrode, and then

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Hydrogen Separation Overvoltage on an Amalgamated SOV/54-59-2-18/24 Zinc Electrode in Concentrated Hydrochloric-acid- and Hydrogen-bromide Solutions

switching to lower current densities in a series of measurements. The potential jumps of the electrode are measured by an oscillograph. The results of measurement for hydrochloric-acid solutions in the concentration interval of 0.1 - 8 N are compiled in table 1 and in figures 1 and 2, for HBr-solutions in the interval of 0.1 - 5 N also in table 1 and in figure 3. The curves of HCl and HClO4 on mercury electrodes are shown in figures 4 and 5 for comparison. The curves obtained consist of 2 parts, a linear one which only corresponds to the discharge of hydrogen ions, and one which corresponds to the simultaneous measurement of the hydrogen separation at the cathode and the discharge of zinc ions into the solution at the anode. The first part of the curve mentioned corresponds well to the equation by Tafel. At low concentrations, this value nearly corresponds to the theoretical one, it increases monotonously with an increase in concentration ( in the HCL-solutions of the mentioned interval from 110 to 149, and in the HBr-solutions from 112 to 275 mv ).

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Hydrogen Separation Overvoltage on an Amalgamated SOV/54-59-2-18/24 Zinc Electrode in Concentrated Hydrochloric-acid and Hydrogen-bromide Solutions

The law observed can be explained by the specific adsorption of the anions (the adsorption of the anions specifically lowers the overvoltage of the hydrogen separation). There are 6 figures, 2 tables, and 11 references, 10 of which are Soviet.

SUBMITTED: October 15, 1958

Card 4/4

s/054/60/000/02/10/021 B022/B007

AUTHORS:

V., Taventarnyy, Ye. G. Ya.

TITLE:

The Overvoltage of Hydrogen Evolution in Concentrated Sulfuric Acid Solutions on an Amalganated Zinc Electrode

PERIODICAL: Vestnik Leningradskogo universiteta. Seriya fiziki i khimii,

1960. No. 2, pp. 80-92

TEXT: In previous papers (Ref. 1), the results obtained by investigating the overvoltage in the hydrogen evolution in concentrated hydrochloric acid- and hydrobromic acid solutions on an amalgameted zinc electrode are shown. In the present paper the overvoltage of hydrogen on an amalgamated zinc electrode in sulfuric acid of the concentrations 0.1 N, 1 N, 3 N, 5 N, 7 N and 10 N is measured by means of the usual- and the oscilloscopic method. The devices used and the methods employed were the same as in Ref. 1. Fresh sulfuric acid, which had been distilled twice or three times, was used. The polarization curves were recorded as in Ref. 1 by means of three different methods. The polarization curves of the dependence  $\phi$  on log i recorded in 3 N sulfuric acid by means of a cathode millivolt-

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The Overvoltage of Hydrogen Evolution in Concentrated Sulfuric Acid Solutions on an Amalgamated Zinc Electrode

s/054/60/000/02/10/021 B022/B007

meter in the direction from greater polarizations to smaller ones, is given (Fig. 1). The curves  $\phi$  - log i in  ${\rm H_2SO_4}$  given in Fig. 2, which were recorded by means of a cathode millivoltmeter, were plotted on the basis of the overvoltage determined on an amalgamated zinc electrode in 0.1 - 10 N sulfuric acid (Table 1) and on the basis of the data given in Table 2. Table 2 further gives the values of the potential of the equilibrium-hydrogen-electrode in corresponding H2SO4 solutions with respect to a normal hydrogen electrode. Table 3 gives the angular coefficients of the sections ab and bc. Table 4 gives the overvoltages in an 1 N H<sub>2</sub>SO<sub>4</sub> solution and the current density of 0.1 a/cm<sup>2</sup> on an electrode made from mercury, amalgamated zinc and hard zinc. The change in the angular coefficient δφ/δlog i with a polarization increase of the electrode and a variation in acid concentration is investigated. As shown by Fig. 3, the break of the curve  $\phi$  - log i increases considerably after the addition of zinc ions. The influence exerted by the specific anion adsorption and the change in the Y1-potential upon the discharge rate of hydrogen ions in sulfuric-, hydrochloric-, and hydrobromic acid is investigated. The data obtained for the quantities W, W', and  $\Delta Y_1$ , which were determined on Card 2/3

The Overvoltage of Hydrogen Evolution in Concentrated Sulfuric Acid Solutions on an Amalgamated Zinc Electrode

S/054/60/000/02/10/021 B022/B007

the basis of the data for the amalgamated zinc electrode, are given in Table 5. The values W calculated from equation (8) are compared with the values Wexp determined experimentally in sulfuric acid with variable concentration (Table 6), where also the values obtained for W'calculated according to equation (9), are given. Satisfactory agreement between the values W calculated on the basis of equation (8) and the experimentally determined values Wexp follows also from the curves in Fig. 4. It is of interest to compare the data given by Table 6 with those in Table 7. In the latter, the values of Wexp, W, and W are given, which correspond to the cathodic hydrogen evolution on the amalgamated zinc electrode in HCl and HBr. The values given in Table 7 were calculated on the basis of the results given in an earlier paper (Ref. 1). In Table 8 the values \( \phi \) for a certain concentration interval of HCl and HBr are given. The following persons are mentioned: Z. A. Iofa and A. N. Frumkin (Ref. 3), Diploma Candidate of the kafedra elektrokhimii (Chair of Electrochemistry)
V. Mal'tsev, A. N. Frumkin and collaborators (Ref. 9) and Bokris (Ref. 10). There are 4 figures, 8 tables, and 15 Soviet references.

Card 3/3

S/076/60/034/009/031/041XX B020/B056

AUTHORS:

Chzhan Chzhi-bin, Kravtsov, V. I., and Durdin, Ya. V.

TITLE:

Kinetics of Electrode Processes on Solid Electrodes. I. Anodic Polarization Curves for Nickel in Sulfuric Acid

PERIODICAL:

Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 9,

pp. 2041 - 2054

TEXT: It was the purpose of the present work to determine the true function  $i(\psi)$  without disturbing moments for the anodic dissolution of a metal as well as the investigation of the activation of a metallic electrode under the effect of anodic polarization. A nickel electrode in  $H_2SO_4$  was investigated, where it is known that in the anodic polarization of Ni in  $H_2SO_4$  no noticeable concentration polarization or passivation is observed within a rather wide range of current density. The activation of Ni-electrodes by an anode current, on the other hand, is known. The  $i(\psi)$  and  $\psi(t)$  curves were recorded by means of an electric measuring device with the help of a cathode voltmeter and a figure-eight loop oscilloscope with two-

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Kinetics of Electrode Processes on Solid Electrodes. I. Anodic Polarization Curves for Nickel in Sulfuric Acid S/076/60/034/009/031/041XX B020/B056

cascade-d.c.-amplifier. The electrodes were provided by a rolled foil of pure Ni of "Hilger" trade-mark, which had been made available by Professor Ya. M. Kolotyrkin. In the present paper, the results obtained in 1 N and 10 N H<sub>2</sub>SO<sub>4</sub> at 25 + 0.10 are given. The potential of the nickel anode changed very consiserably in time after a current of constant density was switched on. The curve abe in Fig. 1 describes the change in the potential of the previously automatically dissolved nickel electrode in 1 N  $\mathrm{H_2SO}_{\Lambda}$ immediately after the anodic polarization current with a density of 0.04 ma/cm2 had been switched on. Curve 1 in Fig. 2 is the "steady" anodic polarization curve & = f(log I), which had been drawn on the basis of the potential on an Ni-anode in 1 N H2SO4 after having been held for a long time under steady conditions and various densities of the current I. From Fig. 2 it follows that in curve I there is no linear section; however, on the curves  $\psi = f(\log I)$  linear sections were experimentally found, to which coefficients b of 10 to 30 mv corresponded. The anodic polarization curve II in Fig. 2 was drawn on the basis of the results obtained by the "change-Card 2/4

Kinetics of Electrode Processes on Solid Electrodes. I. Anodic Polarization Curves for Nickel in Sulfuric Acid S/076/60/034/009/031/041XX B020/B056

over" method on an electrode held at i = 2 ma/cm2. Curve II, in contrast to curve I, has a large linear section, to which there corresponds an angular coefficient of b, = 92 mv. The results obtained by oscilloscopic measurements on automatically dissolving electrodes are given in a table, from which it follows that the difference between the  $\psi = f(\log i)$ -curves, recorded in the same 10 N H<sub>2</sub>SO<sub>4</sub>-solution, is 56 mv. Irrespective of the considerable spread of the individual points, Fig. 3 shows that the volume of the double layer on the Ni-electrode is only little dependent on the potential in a large potential range. Fig. 4 shows the characteristic  $\Psi = f(\log i)$ curves, recorded on one and the same electrode after a long-time holding at three different current densities. Table 2 shows the mean values of the coefficients  $b_1$ , which correspond to the  $\psi = f(\log i)$  curves, recorded on an Ni-electrode previously held at various densities of the activating current. The curves  $C-\phi$  in Fig. 5 correspond to the same surface states of the rickel electrode as the anodic curves in Fig. 4. Fig. 6 shows the steady  $\varphi = f(\log I)$ -anode curves, recorded on nickel in 1 N and 10 N H<sub>2</sub>SO<sub>4</sub>. The data of the anodic change-over oscillograms in 1 N and 10 N  ${\rm H_2SO_4}$ are given in Tables 3 and 4. The dependence of the potential of the nickel Card 3/4

Kinetics of Electrode Processes on Solid Electrodes. I. Anodic Polarization Curves For Nickel in Sulfuric Acid \$/076/60/034/009/031/041XX B020/B056

anode on the logarithm of the true current density of the preceding anodic polarization is given in Fig. 7. Mention is made of V. A. Yuza, L. D. Kopyl, V. A. Royter, Ye. S. Poluyan, A. T. Vagramyan, and A. N. Frumkin. There are 7 figures, 4 tables, and 31 references: 16 Soviet, 1 US, 6 British, and 8 German.

ASSOCIATION:

Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova

(Leningrad State University imeni A. A. Zhdanov)

SUBMITTED:

December 26, 1958

Card 4/4

DURDIN, Ya.V.; TSVENTARNYY, Te.G.

Overvoltage of the electrodeposition of hydrogen from concentrated solutions of hydrochloric and perchloric acids on an amalgam copper electrode. Vest LGU 16 no.16:85-96 '61. (MIRA 14:8)

(Hydrogen) (Overvoltage)

DURDIN, YA.V.: TSVENTARNYY, Ye.G.

. . .

Oscillographic investigation of the kinetics of cathodic hydrogen evolution in concentrated solution of hydrochloric and perchloric acids at the amalgamated copper electrode. Vest. IGU 17 no.10:117-128 \*62. (MIRA 15:5) (Electrolyte solutions)

### "APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411610010-7

AVDEYEV, D.K.; DURDIN, Ya.V.

Dissolution rate of zinc amalgam in diluted solutions of acids studied by the radioactive-tracer technique. Part 1. Vest. ICU 19 no.16:110-117 64.

Dissolution rate of zinc amalgams in diluted solutions of acids studied by the radioactive-tracer technique. Part 2. Ibid.:118-123 (MIRA 17:11)

PTITSYNA, N.V., kand.khim.nauk; DURDINA, O.A.

Copper naphthenate paste is a substitute for Bordeaux mixture. Zashch. rast. ot vred. i bol. 6 no.3:36-38 Mr '61. (MIRA 15:6)

1. Glavnyy agronom-entomolog Krymskogo oblastnogo upravleniya sel'skogo knozyaystva (for Durdina).

(Fungicides)

(Naphthenic acids)

DURDINA, O.D.

Improve the labeling and packing of peisonous chemicals.

Zashch. rast. ot vred. i bol. 7 no.12:15-16 D '62.

(MIRA 16:7)

1. Nachal'nik Krymskoy oblamboy stantsii zashchity rasteniy,

Simferopol'.

(Agricultural chemicals—Packing)

#### "APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411610010-7

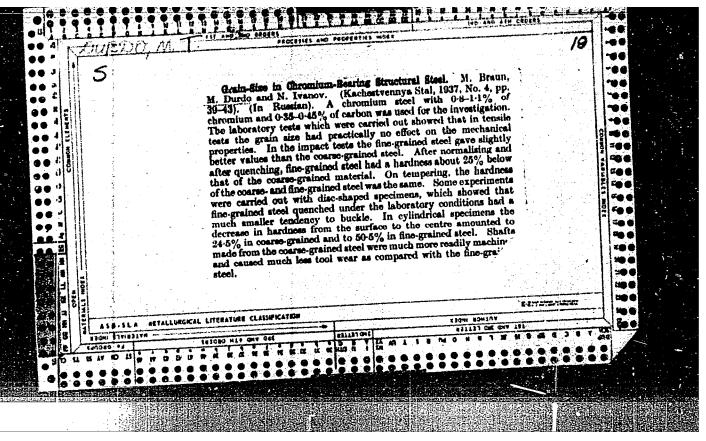
DURDINETS, P.P.

Development and mechanization of the lumbering, paper, and woodworking industry in the Ukraine in 1964. Bum. i der. prom. no.1:3-5 Ja-Mr '64. (MIRA 17:6)

DURDINETS, P.P.

Lumbering, paper, and woodworking industry in the Ukrainian S.S.R. Bum. i der. prom. no.4:3-6 O-D '64 (MIRA 18:2)

### "APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411610010-7



### "APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411610010-7

DURDO Mariya T

BRAUN. Mikhail Petrovich; KURUKLIS, Georgiy Leonidovich; DURDO, Mariya Timofeyevna; BABUSHKINA, G.I., retzenzent; KOSTETSKIY, B.I., doktor tekhnicheskikh nauk, professor, redaktor; IEUTA, V.I., inzhener, redaktor izdatel stva; HUDENSKIY, Ya.V., tekhnicheskiy redaktor

[Inoculated high-speed steel] Modifitsirovannaia bystrorezhushchaia stal'. Kiev. Gos. nauchno-tekhn. izd-vo mashinostoit. lit-ry. 1956.
130 p. (MLRA 9:11)
(Tool steel)

DURDOVIC, Anton

Death caused by electricity. Elektrotechnik 18 no.ll: 330-332 N. 63.

## "APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411610010-7

L 9932-66 EMP(1) WM/RM	7-3
ACC NR: AP6003386 4455 SOURCE CODE: CZ/0043/65/080/007/0570/0576	
AUTHOR: Kysel, Ondrej-Kisel, O. (Engineer); Durdovic, Vladimir Dyurdevich, V. 50 (Engineer)	
ORG: Laboratory of Polymers, Slovak Academy of Sciences, Bratislava (Laboratorium polymerov Slovenskej akademie vied)	
TITIE: Determination of inoculated polypropylene and of a mixture of polypropylene-polystyrene by the method of gas chromatogra, by	
SOURCE: Chemicke Zvesti, no. 7, 1965, 570-576	
TOPIC TAGS: gas chromatography, polystyrene, polypropylene plastic, polymer physical chemistry, thermochemistry	
resulted from thermal decomposition of polypropylene. The method that was investigated by the authors allows an accuracy better than ± 5%. It was found that the amount of the inoculating substance did not have any influence upon the decomposition process. It was also found that the amounts of styrene and propylene obtained from mixtures of atactic polypropylene and polystyrene were equal. Orig. art. has: 8 figures. [JPRS]	
SUB CODE: 07, 11 / SUBM DATE: 11Feb65 / ORIG REF: 002 / OTH REF: 011	
Card <b>1</b>	0

# DURDYTEV, B.

DURDYTHY, E.

"Dynamics of Agylutinius in the Elood With an Account of the Clinical Picture of Tripanosomiasis (Sumuru) in Camels." Cand Vet Sci, Uzbek Agricultural Inst, Turkmen Agricultural Inst, Ashkhahad, 1954. (RZh Biol, No 7, Apr 55)

30: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

# DUNDYYEV, B.

# DURDYYEV, B.

Reeling sild from cocoons with both hands. Tekst.prom. 14 no.6: 18-20 Je 154. (MLRA 7:7)

1. Glavnyy inchener Chardshouskoy shelkomotal'noy fabriki. (Silk manufacture)

# DURDYYEV, B.

Agglutination reaction in the trypanosomiasis of camels. Izv.
AN Turk.SSR. Ser.biol.nauk no.2:58-61 '63. (MIRA 16:5)

1. Turkmenskiy sel'skokhozymystvennyy institut imeni M.I. Kalinina. (CAMELS-DISKASES AND PESTS) (TRYPANOSOMIASIS) (AGGIUTINATION)

DURDYYEV, Kh.

Existence of the bi-integral. Izv. AN Turk. SSR.Ser. fiz.-tekh., khim. i geol.nauk no.6:103-104 '63.

Definition and properties of the double bi-integral. Ibid.:104-109 (MIRA 18:1)

1. Fiziko-tekhnicheskiy institut AN Turkmenskoy SSSR.

L 05733-67 E/T(d) IJP(c)
ACC NR. AP6016931

SOURCE CODE: UR/0202/65/000/006/0025/0032

AUTHOR: Durdyyev, Kh.

ORG: Physico-Technical Institute, AN Turkmen SSR (Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR)

TITLE: Application of the bi-integral to the approximate solution of boundary value problems of ordinary differential equations

SOURCE: AN TurkmSSR. Izvestiya. Seriya fiziko-tekhnicheskikh, khimicheskikh i geologicheskikh nauk, no. 6, 1965, 25-32

TOPIC TAGS: boundary value problem, ordinary differential equation, linear equation, initial value problem, mathematic determinant, eigenvalue

ABSTRACT: A k-tuple n-th order bi-integral is defined as an extension of the bi-integral of I. S. Arzhanykh (DAN UzSSR, No. 11, 1960). It is given that the n-th order differential equation  $y^{(n)} = f(x, y, y', ..., y^{(n-1)}).$ 

with boundary conditions

$$U_{i}[y(x_{0}), y'(x_{0}), ..., y^{(n-2)}(a), y^{(n-1)}(a)] = 0$$

$$i = 1, 2, ..., n$$

has a solution on the segment  $(\bar{x}_0, a)$ . The general case of application of the